PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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BELFIN,-Vladimír P.O. Box 117 272 80 Kladno REPUBLIQUE TCHEQUE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PREL!MINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

10.03.2005

Applicant's or agent's file reference

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

IMPORTANT NOTIFICATION

PCT/CZ 03/00070

15.12.2003

17.12.2002

Applicant

SVOS s.r.o. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Authorized Officer

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Appl	icant's	or age	ent's file reference	FOR FURTHER AC	CTION See Notif	cation of Transmittal of International
					Prelimina	ry Examination Report (Form PCT/IPEA/416)
	International application No. PCT/CZ 03/00070			International filing date	day/month/year)	Priority date (day/month/year)
PC			070	15.12.2003		17.12.2002
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Svo	OS s.ı	r.o. e	t al.		_	
1.	This	inter	national preliminary exa	imination report has bee e applicant according to	n prepared by this	International Preliminary Examining
	71011	only .		c applicant according to	Article 50.	
2.	This	REP	ORT consists of a total	of 5 sheets, including the	nis cover sheet.	
	\boxtimes	This	report is also accompa	anied by ANNEXES, i.e.	sheets of the desc	cription, claims and/or drawings which have
		bee	n amended and are the	basis for this report and on 607 of the Administrat	for sheets contain	ing rectifications made before this Authority
	T b				ive msaucaons ui	der the PC1).
	ines	se an	nexes consist of a total	of 16 sneets.		
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3.	This	repo	rt contains indications re	elating to the following it	ems:	4.
	1	\boxtimes	Basis of the opinion			
	11		Priority			
	Ш		Non-establishment of	opinion with regard to n	ovelty, inventive s	tep and industrial applicability
	IV		Lack of unity of invent			
	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				ty, inventive step or industrial applicability;	
	VI		Certain documents cit	,, -		
	VII		Certain defects in the	international application	1	
	VIII		Certain observations	on the international app	ication	
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Date	Date of submission of the demand Date of completion of this report					
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08.0	08.07.2004 10.03.2005					
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	D-80298 Munich Ziegler, H-J					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CZ 03/00070

I. Ba	sis	of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		_	
	Desc	ription, Pages	
	1-13		filed with the demand
	Clain	ns, Numbers	en a la l
	1-16		filed with the demand
	Draw	vings, Sheets	
		Alligs, choose	as originally filed
	1/1		
2.	With lang	regard to the languaguage in which the inter	e, all the elements marked above were available or furnished to this Authority in the national application was filed, unless otherwise indicated under this item.
	Thes	se elements were avail	able or furnished to this Authority in the following language: , which is:
		the language of a tran	slation furnished for the purposes of the international search (under Rule 23.1(b)).
	П	the language of public	ation of the international application (under Rule 48.3(b)).
		the language of a tran Rule 55.2 and/or 55.3	slation furnished for the purposes of international preliminary examination (under).
3	. With inte	n regard to any nucleo rnational preliminary e	tide and/or amino acid sequence disclosed in the international application, the xamination was carried out on the basis of the sequence listing:
			national application in written form.
		filed together with the	international application in computer readable form.
			tly to this Authority in written form.
		furnished subsequent	tly to this Authority in computer readable form.
		The statement that the	le subsequently furnished written sequence listing does not go beyond the disclosure polication as filed has been furnished.
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence
_	i. Th		esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
	_	the drawings,	sheets:
		me diawings,	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CZ 03/00070

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 46. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - 1. Statement

Novelty (N)

Yes: Claims 2-6
No: Claims 1

Inventive step (IS)

Yes: Claims 2-4
No: Claims 5,6

Industrial applicability (IA)

Yes: Claims 1-6

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: DE 43 44 711 A (DAIMLER BENZ AG) 20 July 1995 (1995-07-20)

D2: EP-A-0 247 020 (VOEST ALPINE AG) 25 November 1987 (1987-11-25)

Novelty

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The features referring to the techniques for bonding the layers and to the chemical composition of the intermediate layers in claim 1 are optional and do not delimit the subject matter the claim. The content of nickel mentioned in the claim is in combination with the term "in particular" which is in view of the PCT Guidelines 5.40 entirely optional. The same applies to the enumeration of bonding techniques in the claim.

The document D1 (fig.1) discloses a multi layered steel armour (col.3, I.19), consisting of a front-face ballistic resistant armour layer, and a backing armour layer (outer layers), which are fully metallurgically bonded by means of a joining metallic intermediate layer (inner layer; bonding by explosive cladding - col.2, I.57/58). This layer is made from a material featuring the face centred cubic crystalline lattice (col.1, I.2, I.61).

Claim 1 does encompass an armour where all the layers are made from the same material, since no concrete structural details or details regarding their composition are given in the claim.

Therefore all the technical features of claim 1 are known from D1.

Also D2 discloses the features of claim 1: Between two steel armour plates ("zwischen Grundwerkstoff und Auflage" col.2, l.46) is sandwiched an intermediate layer ("Zwischenlage aus Reinnickel oder Reineisen" I.47). The structure is fully metallurgically bonded ("Walzplattieren" col.2, l.51). Nickel has a face-centred cubic crystalline structure. Inventive step of dependent claims

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 5 and 6 does not involve an inventive step in the sense of Article 33(3) PCT.

Stacked, multiple layer armours are generally known in the field. A skilled person would adopt this suggestion in order to increase the protection offered by the armour. Thereby an arrangement as defined in claim 5 would be obviously created.

The armour of claim 6 uses an internal armour layer of steel that appears to have a composition that lies in an area, a skilled person would consider in making an armour, without exercising any inventive skills.

Therefore the subject matter of claims 5 and 6 is not regarded as involving an inventive step.

The compositions mentioned in claims 2-4 are not disclosed in the prior art at hand. There is no suggestion for skilled person to include these compositions in an intermediate armour layer for increasing the resistivity of the armour by introducing a highly plastic material having a maximum nickel content of 98% (claim 2), 50% (claim 3) or 30% (claim 4).

The invention is industrially applicable.